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### 1 [Stateful distributed interposition](#)



John Reumann, Kang G. Shin

February ACM Transactions on Computer Systems (TOCS), Volume 22 Issue 1  
2004

**Publisher:** ACM

Full text available: [pdf\(833.84](#)  
[KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),  
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**Bibliometrics:** Downloads (6 Weeks): 10, Downloads (12 Months): 79, Citation Count: 1


Interposition-based system enhancements for multitiered servers are difficult to build because important system context is typically lost at application and machine boundaries. For example, resource quotas and user identities do not propagate easily ...

Keywords: Distributed computing, component services, distributed context, multitiered services, operating systems, server consolidation

**2** On designing incentive-compatible routing and forwarding protocols in wireless ad-hoc networks: an integrated approach using game theoretic and cryptographic techniques

Sheng Zhong, Li Erran Li, Yanbin Grace Liu, Yang Richard Yang  
December 2007  
Wireless Networks, Volume 13 Issue 6

**Publisher:** Kluwer Academic Publishers

Full text available:  [pdf\(621.48 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 29, Downloads (12 Months): 46, Citation Count: 0

In many applications, wireless ad-hoc networks are formed by devices belonging to independent users. Therefore, a challenging problem is how to provide incentives to stimulate cooperation. In this paper, we study ad-hoc games--the routing and packet ...

Keyw ords: ad hoc networks, incentive compatibility, packet forwarding, routing

**3** Loose source routing as a mechanism for traffic policies



Katerina Argyraki, David R. Cheriton

August 2004  
FDNA '04: Proceedings of the ACM SIGCOMM workshop on Future directions in network architecture

**Publisher:** ACM

Full text available:  [pdf\(135.80 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 7, Downloads (12 Months): 38, Citation Count: 3

Internet packet delivery policies have been of concern since the earliest times of the Internet, as witnessed by the presence of the Type of Service (ToS) field in the IPv4 header. Efforts continue today with Differentiated Services (DiffServ) and Multiprotocol ...

Keyw ords: filtering, loose source routing, quality of service, route control, traffic policies

#### 4 [A distributed security scheme for ad hoc networks](#)



Dhaval Gada, Rajat Gogri, Punit Rathod, Zalak Dedhia, Nirali Mody, Sugata Sanyal, Ajith Abraham

September 2004 Crossroads, Volume 11 Issue 1

**Publisher:** ACM

Full text available: [pdf\(178.56 KB\)](#) [Publisher Site](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 9, Downloads (12 Months): 13, Citation Count: 0

In an ad hoc wireless network where wired infrastructures are not feasible, energy and bandwidth conservation are the two key elements presenting challenges to researchers. Limited bandwidth makes a network easily congested by the control signals of ...

#### 5 [Analysis of the 802.11i 4-way handshake](#)



Changhua He, John C. Mitchell

October 2004 WiSe '04: Proceedings of the 3rd ACM workshop on Wireless security

**Publisher:** ACM

Full text available: [pdf\(328.36 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 28, Downloads (12 Months): 283, Citation Count: 4

802.11i is an IEEE standard designed to provide enhanced MAC security in wireless networks. The authentication process involves three entities: the supplicant (wireless device), the authenticator (access point), and the authentication server (e.g., a ...

**Keywords:** 4-way handshake, 802.11i, WLAN, authentication, denial-of-service, key management

#### 6 [Mohonk: mobile honeypots to trace unwanted traffic early](#)



Balachander Krishnamurthy

September 2004 NetT '04: Proceedings of the ACM SIGCOMM workshop on Network troubleshooting: research, theory and operations practice meet malfunctioning reality

**Publisher:** ACM

Full text available: [pdf\(133.12 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 3, Downloads (12 Months): 52, Citation Count: 4

Honeypots have been traditionally used to advertise dark address space and gather information about originators of traffic to such addresses. With simple thresholding mechanisms this technique has shown itself to be fairly effective in identifying suspicious ...


Keywords: network monitoring, unwanted packets

## 7 DHTTP: an efficient and cache-friendly transfer protocol for the web

Michael Rabinovich, Hua Wang

December IEEE/ ACM Transactions on Networking (TON), Volume 12 Issue 6  
2004

**Publisher:** IEEE Press

Full text available:  pdf(487.71 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

**Bibliometrics:** Downloads (6 Weeks): 7, Downloads (12 Months): 79, Citation Count: 0

Today's HTTP carries Web interactions over client-initiated TCP connections. An important implication of using this transport method is that interception caches in the network violate the end-to-end principle of the Internet, which severely limits deployment ...

Keywords: HTTP protocol, interception caching, internet, web performance

## 8 Optimizing BGP security by exploiting path stability



Kevin Butler, Patrick McDaniel, William Aiello

October CCS '06: Proceedings of the 13th ACM conference on Computer and  
2006 communications security

**Publisher:** ACM

Full text available:  pdf(411.54 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 15, Downloads (12 Months): 144, Citation Count: 0

The Border Gateway Protocol (BGP) is the de facto interdomain routing protocol on the Internet. While the serious vulnerabilities of BGP are well known, no security solution has been widely deployed. The lack of adoption is largely caused by a failure ...

Keywords: BGP, path stability, routing, security

9 Shunting: a hardware/software architecture for flexible, high-performance network intrusion prevention



Jose M. Gonzalez, Vern Paxson, Nicholas Weaver

October 2007 CCS '07: Proceedings of the 14th ACM conference on Computer and communications security

**Publisher:** ACM

Full text available: [pdf\(578.51 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 53, Downloads (12 Months): 259, Citation Count: 0

Stateful, in-depth, inline traffic analysis for intrusion detection and prevention is growing increasingly more difficult as the data rates of modern networks rise. Yet it remains the case that in many environments, much of the traffic comprising a high-volume ...

Keyw ords: fpga, hardware acceleration, intrusion detection, intrusion prevention, nids, nips

10 The shunt: an FPGA-based accelerator for network intrusion prevention



Nicholas Weaver, Vern Paxson, Jose M. Gonzalez

February 2007 FPGA '07: Proceedings of the 2007 ACM/SIGDA 15th international symposium on Field programmable gate arrays

**Publisher:** ACM

Full text available: [pdf\(240.27 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 13, Downloads (12 Months): 184, Citation Count: 0

The sophistication and complexity of analysis performed by today's network intrusion prevention systems (IPSs) benefits greatly from implementation using general-purpose CPUs. Yet the performance of such CPUs increasingly lags behind that necessary to ...

Keyw ords: FPGA, NIC, hardware acceleration, intrusion detection

11 Cooperative forensics sharing



Fareed Zaffar, Gershon Kedem

December 2006 BIONETICS '06: Proceedings of the 1st international conference on Bio inspired models of network, information and computing systems

**Publisher:** ACM

Full text available: [pdf\(305.75 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#)

**Bibliometrics:** Downloads (6 Weeks): 6, Downloads (12 Months): 69, Citation Count: 0


Having timely and credible security information is becoming critical to network and security management. Most current sources of threat information and ...

## 12 Protocol scrubbing: network security through transparent flow modification

David Watson, Matthew Smart, G. Robert Malan, Farnam Jahanian

April IEEE/ ACM Transactions on Networking (TON), Volume 12 Issue 2  
2004

**Publisher:** IEEE Press

Full text available:  [pdf\(316.54 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),  
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**Bibliometrics:** Downloads (6 Weeks): 12, Downloads (12 Months): 121, Citation Count: 2

This paper describes the design and implementation of protocol scrubbers. Protocol scrubbers are transparent, interposed mechanisms for explicitly removing network scans and attacks at various protocol layers. The transport scrubber supports downstream ...

Keywords: intrusion detection, network security, protocol scrubber, stack fingerprinting

## 13 Securing the deluge Network programming system



Prabal K. Dutta, Jonathan W. Hui, David C. Chu, David E. Culler

April IPSN '06: Proceedings of the fifth international conference on Information  
2006 processing in sensor networks

**Publisher:** ACM

Full text available:  [pdf\(331.36 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),  
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**Bibliometrics:** Downloads (6 Weeks): 16, Downloads (12 Months): 131, Citation Count: 3

A number of multi-hop, wireless, network programming systems have emerged for sensor network retasking but none of these systems support a cryptographically-strong, public-key-based system for source authentication and integrity verification. The traditional ...

Keywords: authenticated broadcast, dissemination protocols, network programming, security, wireless sensor networks


## 14 Sensitivity of PCA for traffic anomaly detection



Haakon Ringberg, Augustin Soule, Jennifer Rexford, Christophe Diot

June ACM SIGMETRICS Performance Evaluation Review, Volume 35 Issue 1  
2007

**Publisher:** ACM

Full text available:  [pdf\(515.07 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 13, Downloads (12 Months): 268, Citation Count: 0

Detecting anomalous traffic is a crucial part of managing IP networks. In recent years, network-wide anomaly detection based on Principal Component Analysis (PCA) has emerged as a powerful method for detecting a wide variety of anomalies. We show that ...


Keywords: network traffic analysis, principal component analysis, traffic engineering

## 15 Paranoid penguin: Linux firewalls for everyone

Mick Bauer

April 2007 Linux Journal, Volume 2007 Issue 156

**Publisher:** Specialized Systems Consultants, Inc.

Full text available:  [html\(89.70 KB\)](#)

Additional Information: [full citation](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 9, Downloads (12 Months): 153, Citation Count: 0

## 16 On BGP communities



Benoit Donnet, Olivier Bonaventure

March 2008 ACM SIGCOMM Computer Communication Review, Volume 38 Issue 2

**Publisher:** ACM

Full text available:  [pdf\(410.58 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 29, Downloads (12 Months): 29, Citation Count: 0

This paper focuses on BGP communities, a particular BGP attribute that has not yet been extensively studied by the research community. It allows an operator to group destinations in a single entity to which the same routing decisions might be applied. ...

Keywords: BGP, community attribute, taxonomy, traffic engineering

## 17 A framework for classifying denial of service attacks



Alefiya Hussain, John Heidemann, Christos Papadopoulos

August 2003 SIGCOMM '03: Proceedings of the 2003 conference on Applications, technologies, architectures, and protocols for computer communications

**Publisher:** ACM

Full text available:  [pdf\(622.14 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 37, Downloads (12 Months): 300, Citation Count: 28

Launching a denial of service (DoS) attack is trivial, but detection and response is a painfully slow and often a manual process. Automatic classification of attacks as single- or multi-source can help focus a response, but current packet-header-based ...


Keyw ords: denial of service attacks, measurement, security, time series analysis

**18** ODSBR: An on-demand secure Byzantine resilient routing protocol for wireless ad hoc networks



Baruch Awerbuch, Reza Curtmola, David Holmer, Cristina Nita-Rotaru, Herbert Rubens  
January      ACM Transactions on Information and System Security (TISSEC),  
2008      Volume 10 Issue 4

**Publisher:** ACM

Full text available:  [pdf\(2.02 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 26, Downloads (12 Months): 121, Citation Count: 0

Ad hoc networks offer increased coverage by using multihop communication. This architecture makes services more vulnerable to internal attacks coming from compromised nodes that behave arbitrarily to disrupt the network, also referred to as Byzantine ...

Keyw ords: Ad hoc wireless networks, byzantine failures, on-demand routing, security

**19** Vigilante: end-to-end containment of internet worms



Manuel Costa, Jon Crowcroft, Miguel Castro, Antony Rowstron, Lidong Zhou, Lintao Zhang, Paul Barham  
October      SOSP '05: Proceedings of the twentieth ACM symposium on Operating  
2005      systems principles

**Publisher:** ACM

Full text available:  [pdf\(329.29 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),  
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**Bibliometrics:** Downloads (6 Weeks): 11, Downloads (12 Months): 227, Citation Count: 30

Worm containment must be automatic because worms can spread too fast for humans to respond. Recent work has proposed network-level techniques to automate worm containment; these techniques have limitations because there is no information about the vulnerabilities ...

Keyw ords: control flow analysis, data flow analysis, self-certifying alerts, worm containment

## 20 [A clean slate 4D approach to network control and management](#)



Albert Greenberg, Gisli Hjalmtysson, David A. Maltz, Andy Myers, Jennifer Rexford, Geoffrey Xie, Hong Yan, Jibin Zhan, Hui Zhang

October 2005 ACM SIGCOMM Computer Communication Review, Volume 35 Issue 5

**Publisher:** ACM

Full text available: [pdf\(313.74 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 28, Downloads (12 Months): 213, Citation Count: 7

Today's data networks are surprisingly fragile and difficult to manage. We argue that the root of these problems lies in the complexity of the control and management planes--the software and protocols coordinating network elements--and particularly the ...

**Keywords:** control, network management, robustness

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